

```
In [11]: import pandas as pd
```

```
In [12]: data=pd.read_csv("/home/placement/Desktop/venkatesh/movies.csv")
```

```
In [13]: data.describe()
```

```
Out[13]:
```

	srno	year	rating	time
count	49590.000000	49590.000000	10814.000000	45836.000000
mean	24795.500000	2002.303428	3.451248	2628.445436
std	14315.544261	12.534555	0.495601	1604.646265
min	1.000000	1913.000000	1.400000	52.000000
25%	12398.250000	1999.000000	3.100000	1356.000000
50%	24795.500000	2007.000000	3.500000	2563.000000
75%	37192.750000	2010.000000	3.800000	2877.000000
max	49590.000000	2014.000000	4.500000	28813.000000

```
In [14]: data.head(5)
```

```
Out[14]:
```

	srno	movie	year	rating	time
0	1	The Nightmare Before	1993	3.9	4568.0
1	2	The Mummy	1932	3.5	4388.0
2	3	Orphans of the Storm	1921	3.2	9062.0
3	4	The Object of Beauty	1991	2.8	6150.0
4	5	Night Tide	1963	2.8	5126.0

```
In [6]: data1=data.loc[(data.time>5000)]
```

In [7]: data1

Out[7]:

	srno	movie	year	rating	time	
	2	3	Orphans of the Storm	1921	3.2	9062.0
	3	4	The Object of Beauty	1991	2.8	6150.0
	4	5	Night Tide	1963	2.8	5126.0
	5	6	One Magic Christmas	1985	3.8	5333.0
	6	7	Muriel's Wedding	1994	3.5	6323.0
	...	...	...	...	...	...
49564	49565	American Addict	2013	3.5	5377.0	
49579	49580	Underground: The Julian Assange Story	2012	3.7	5665.0	
49583	49584	Sunset Strip	2012	3.0	5770.0	
49584	49585	Silver Bells	2013	3.5	5287.0	
49586	49587	Top Gear: Series 19: Africa Special	2013	NaN	6822.0	

5897 rows × 5 columns

```
In [9]: data2=data.loc[(data.year==2000)&(data.time>5000)]
data2
```

Out[9]:

	srno	movie	year	rating	time
409	410	Believe	2000	3.3	5767.0
416	417	The Prophecy 3: The Ascent	2000	3.4	5048.0
430	431	Scream 3	2000	3.2	7013.0
432	433	Holy Smoke	2000	3.0	6855.0
437	438	Requiem for a Dream	2000	3.9	6087.0
...	...	...	...	...	...
32557	32558	Shaded Places	2000	2.9	5350.0
36229	36230	The Three Stooges	2000	3.7	5256.0
37333	37334	Les Miserables: Pt. 2	2000	NaN	5170.0
37336	37337	Les Miserables: Pt. 1	2000	NaN	5194.0
39493	39494	The Prophet's Game	2000	3.2	6486.0

137 rows × 5 columns

```
In [16]: data.tail()
```

Out[16]:

	srno	movie	year	rating	time
49585	49586	Winter Wonderland	2013	2.8	1812.0
49586	49587	Top Gear: Series 19: Africa Special	2013	NaN	6822.0
49587	49588	Fireplace For Your Home: Crackling Fireplace w...	2010	NaN	3610.0
49588	49589	Kate Plus Ei8ht	2010	2.7	NaN
49589	49590	Kate Plus Ei8ht: Season 1	2010	2.7	NaN

```
In [27]: data3=data.loc[(data.year>2000)&(data.year<2010)&(data.rating>4)]
```

In [28]: data3

Out[28]:

	srno	movie	year	rating	time
984	985	Paid in Full	2002	4.1	5883.0
1061	1062	The Pianist	2002	4.1	8945.0
1285	1286	Pirates of the Caribbean: The Curse of the Bla...	2003	4.1	8586.0
1305	1306	Ken Burns: Jazz	2001	4.1	NaN
1363	1364	The Life of Mammals	2002	4.2	NaN
...	...	...	...	...	...
45735	45736	FETCH! with Ruff Ruffman: Season 1	2006	4.2	NaN
46144	46145	FETCH! with Ruff Ruffman	2006	4.2	NaN
47606	47607	Long Way Round	2004	4.4	NaN
47607	47608	Long Way Down	2007	4.3	NaN
48854	48855	Pit Bulls & Parolees	2009	4.3	NaN

303 rows × 5 columns

In [29]: datat=data.sort\_values('time')

```
In [30]: datat
```

```
Out[30]:
```

	srno	movie	year	rating	time
<b>40150</b>	40151	Trailer: Pain	2012	3.6	52.0
<b>41081</b>	41082	Trailer: Get to Work	2012	3.3	55.0
<b>41082</b>	41083	Trailer: Give and Take	2012	3.3	66.0
<b>43166</b>	43167	Trailer: Emperor	2013	3.1	67.0
<b>43330</b>	43331	Trailer: Blood Angel	2013	4.2	69.0
...	...	...	...	...	...
<b>49556</b>	49557	Shinobi Girl	2012	2.0	NaN
<b>49561</b>	49562	My Hope America with Billy Graham	2013	3.9	NaN
<b>49565</b>	49566	My Hope America with Billy Graham	2013	3.9	NaN
<b>49588</b>	49589	Kate Plus Ei8ht	2010	2.7	NaN
<b>49589</b>	49590	Kate Plus Ei8ht: Season 1	2010	2.7	NaN

49590 rows × 5 columns

```
In [31]: datar=data.sort_values('rating')
```

In [32]: datar

Out[32]:

	srno	movie	year	rating	time
40934	40935	Lagegi	2007	1.4	NaN
42115	42116	Sun Yaar Chill Maar	2007	1.4	NaN
40826	40827	Lagegi	2007	1.4	NaN
42160	42161	Sun Yaar Chill Maar	2007	1.4	NaN
41396	41397	Meri Toh Lag Gayi Naukri	2011	1.5	NaN
...	...	...	...	...	...
49563	49564	My Hope America with Billy Graham: Lose to Gain	2013	NaN	1400.0
49576	49577	Barbie: Life in the Dreamhouse: Barbie Life in...	2013	NaN	1390.0
49577	49578	Barbie: Life in the Dreamhouse: Barbie Life in...	2013	NaN	1458.0
49586	49587	Top Gear: Series 19: Africa Special	2013	NaN	6822.0
49587	49588	Fireplace For Your Home: Crackling Fireplace w...	2010	NaN	3610.0

49590 rows × 5 columns

```
In [33]: datat.describe()
```

```
Out[33]:
```

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